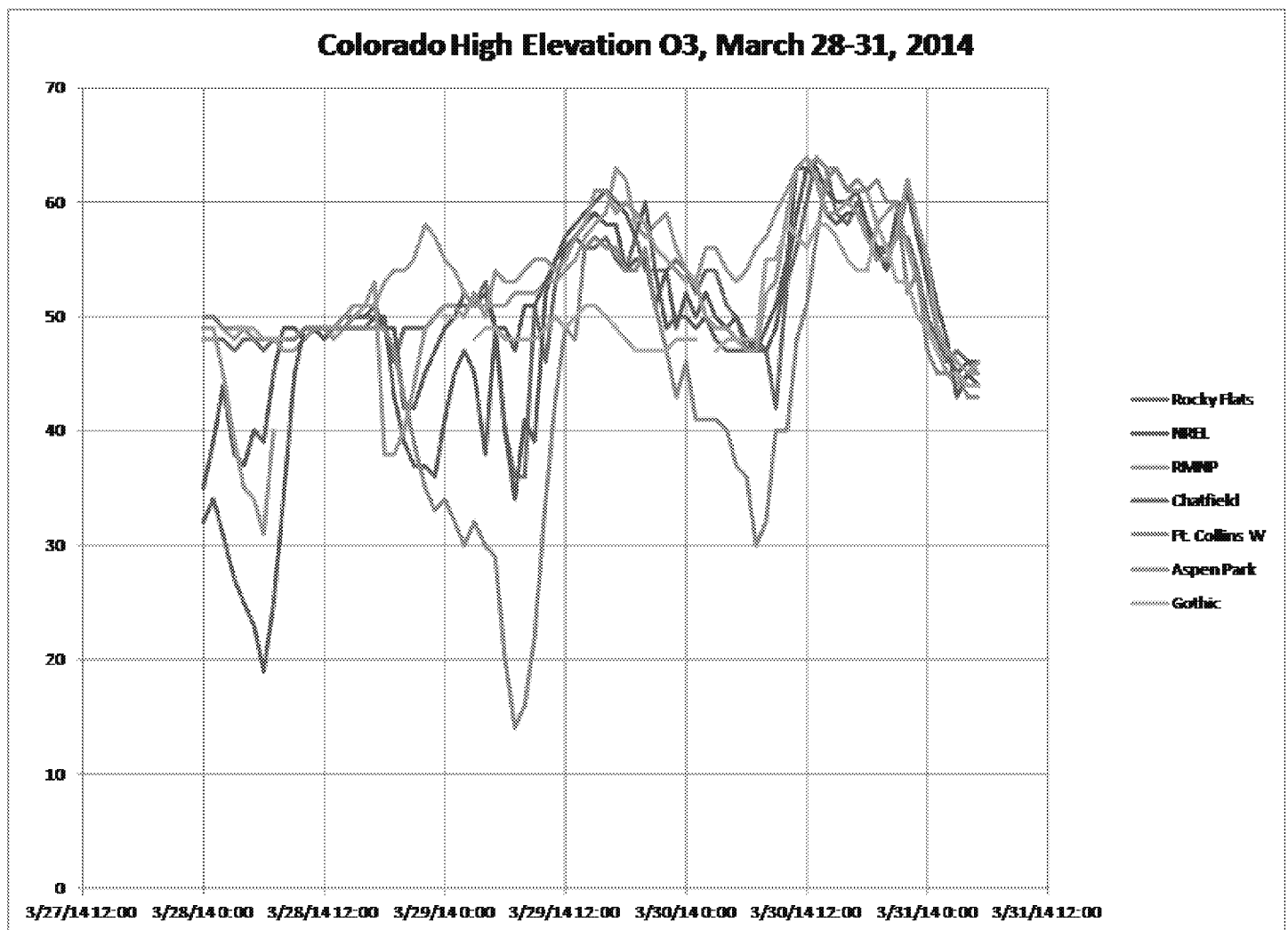


Message

**From:** Payton, Richard [Payton.Richard@epa.gov]  
**Sent:** 3/31/2014 2:03:54 PM  
**To:** Reddy - CDPHE, Patrick [patrick.reddy@state.co.us]; Andrew Langford-NOAA Federal [andrew.o.langford@noaa.gov]; Tonnesen, Gail [Tonnesen.Gail@epa.gov]; Brad Pierce [brad.pierce@noaa.gov]; pfister@ucar.edu; Chuck.Machovec@state.co.us; Briggs, Kevin [Kevin.Briggs@state.co.us]; emmett.malone@state.co.us; Scott Landes - CDPHE [scott.landes@state.co.us]; Pierce', 'GORDON [Gordon.Pierce@state.co.us]; gregory.harshfield@state.co.us  
**CC:** Matichuk, Rebecca [Matichuk.Rebecca@epa.gov]; Jackson, Scott [Jackson.Scott@epa.gov]; Rothery, Deirdre [Rothery.Deirdre@epa.gov]  
**Subject:** RE: Front Range stratospheric intrusion Sunday night

Rocky Mountain NP had an 8-hour average of 62 ppb yesterday; Fort Collins West, 61 ppb, Aspen Park and NREL in Jefferson County and Chatfield in Douglas County had 60 ppb. Gothic had 56 ppb. I did not see any trajectories from relatively high upwind 516 mb points come down below 750 mb on the IDEA-I analysis. NREL, RMNP, Chatfield and Aspen Park all had a secondary peak, 1-hour at 60-62 ppb, at 9:00-11:00 PM.



**From:** Reddy - CDPHE, Patrick [mailto:patrick.reddy@state.co.us]  
**Sent:** Sunday, March 30, 2014 9:58 AM  
**To:** Andrew Langford-NOAA Federal; Tonnesen, Gail; Brad Pierce; pfister@ucar.edu; Chuck.Machovec@state.co.us; Briggs, Kevin; emmett.malone@state.co.us; Scott Landes - CDPHE; Pierce', 'GORDON; gregory.harshfield@state.co.us;

Payton, Richard

**Subject:** Front Range stratospheric intrusion Sunday night

I don't have access to my normal tools for forecasting these events this morning. The UCAR IDV tool data stream is offline for some reason. Also the IDEA intrusion tool is hampered by extensive cloud cover over the West, so it really can't pick up 500 mb O3 over most of this region. We will have a classic open trough move across Colorado today with a strong vort max passing by the Front Range around midnight tonight. This should cause at least moderate concentrations at RMNP, Gothic, many foothills sites, some plains locations and also area within the southern half of Wyoming. Blowing dust and strong winds are also likely this afternoon in many areas of Colorado, Arizona, Utah, and New Mexico.

Pat

--

Patrick J. Reddy

Senior Air Quality Meteorologist

Modeling, Meteorology, and Emissions Inventory Unit

Technical Services Program

Air Pollution Control Division

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